

Control method

Remote control, WiFi control, DMX control, Remote & switch control, External control, Auto control

1. Remote control: RGB Remote control (with RGB controller)



(A) Remote controller Instruction

Button no.	Function	Button no.	Function
1	On/off	7	Blue
2	Reset/ (RGB=white)	8	R+G/G+B/R+B
3	speed/brightness+	9	Dynamic change: (R-G) / (G-B) / (R-B)
4	speed/brightness -	10	Dynamic change (R-G-B) /Colorful change
5	Red	11	Fading: R-G-B
6	Green	12	Colorful fading

(B) RGB Controller Instruction

Button Function	Button Function
On/off: switch on/off	Speed/Brightness+: increase speed or brightness
Speed/Brightness-: decrease speed or brightness	RGB Pattern: change RGB program



Simply connect live and neutral wires onto any one of wires of the lamp

Step1: connect RGB controller to power line as below diagram

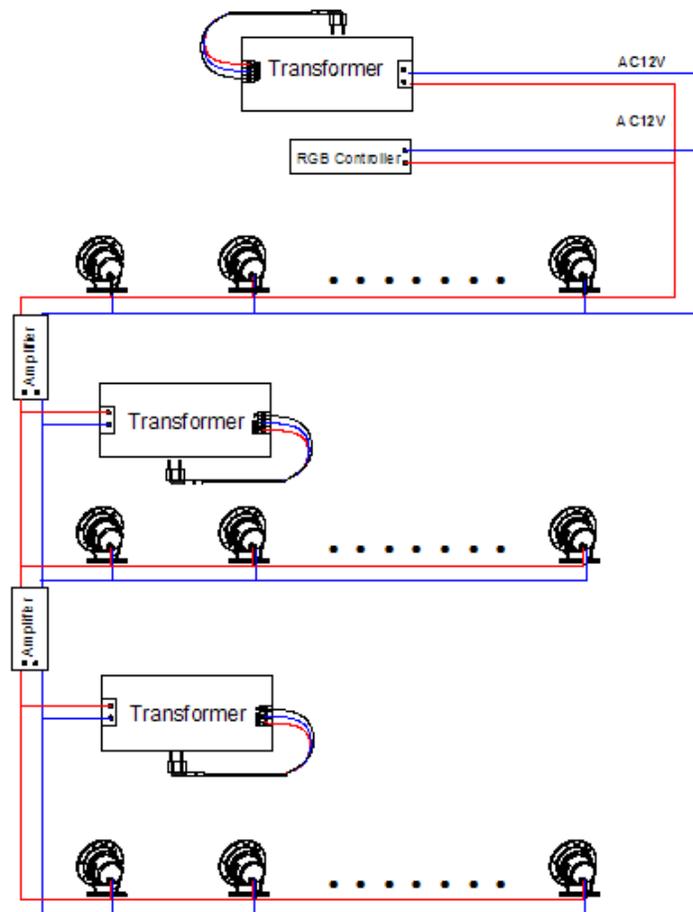
Step2: connect lamps to power line as below diagram

Remark: RGB signal is strong enough within 50 meters wire and 1 RGB controller could connect 20 pcs lamps, in case above 20 pcs lamps, use amplifier to enhance the signal, 1 amplifier could connect 10 pcs lamps, make sure the power wire is big enough to carry enough voltage (12V AC) in order to avoid voltage drop, see connection diagram as below.

Caution:

Use toroidal transformer (12V AC according to lamp voltage), electronic transformer is not applicable for LED lamp.

Diagram:



In order to avoid any interruption of RGB remote control system from neighbor/near area, please do following 2 steps.

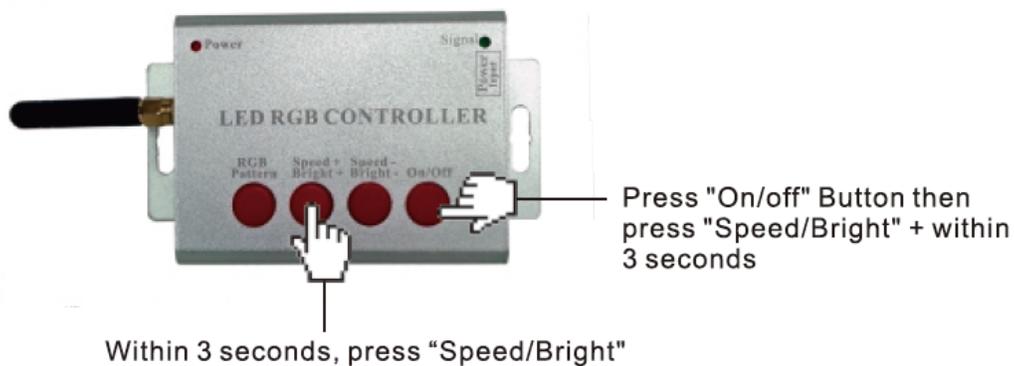
Step (1) Remote controller match RGB controller code: connect the lamps & RGB controller, turn on power

Press "on/off" button of RGB controller, within 3 seconds press button "2" & "12" at the same time.
 RGB controller will beep in 3-5 seconds, then another longer beep appear, match-code between RGB controller and remote will be finished.

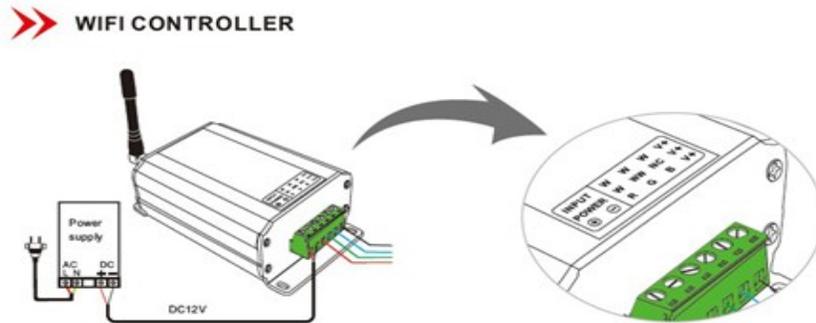


Step (2) RGB controller match Lamp code

Press "on/off" button, within 3 seconds press "Speed/Bright +" button, all the lamps will change color "Red" → "Green" → "Blue", then release the button.



2. WiFi Control

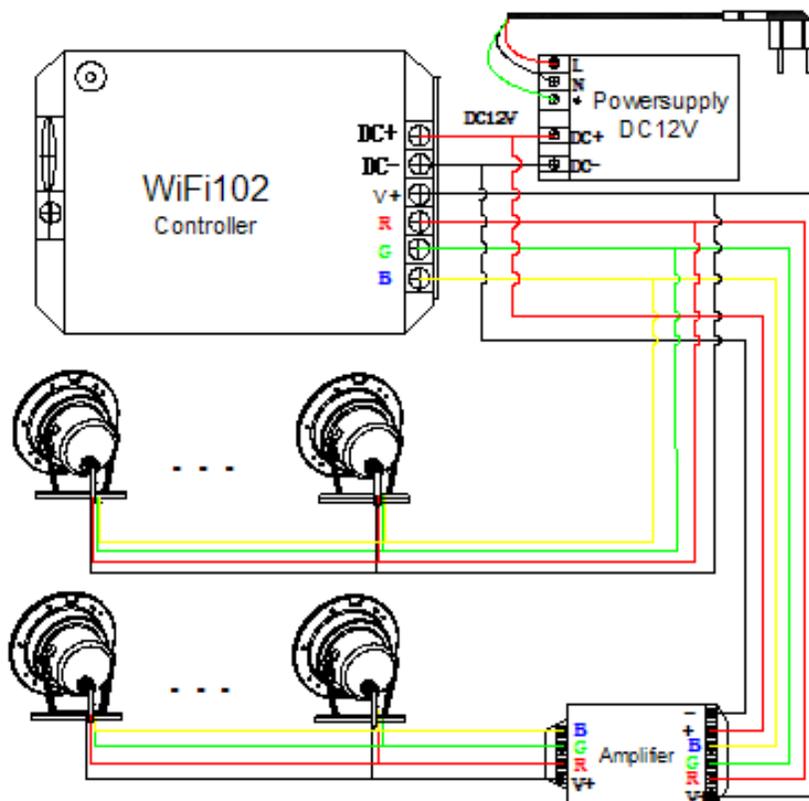


Step1: Connect Power supply (12V DC) to Input Power(DC+, DC-) of LED WIFI controller

Step2: (V+,B,G,R) port of LED WIFI controller connect to 4 wires(V+,B,G,R) of lamp as diagram below.

Remark: WiFi RGB Controller power is 100W, if total lamp wattage is above 100W, need to add Amplifier (150W) to enhance RGB signal.

Diagram:



3. DMX512 Control

Step1: connect DMX Controller to power line as below diagram

Step2: connect lamps to power line and DMX Controller as below diagram

Remark: DMX Controller VCC connect to Power supply DC+, GND1 connect to Power supply DC-

5 Wires:

Brown wire connect to DMX controller “VCC”

Black wire connect to DMX controller “GND1”

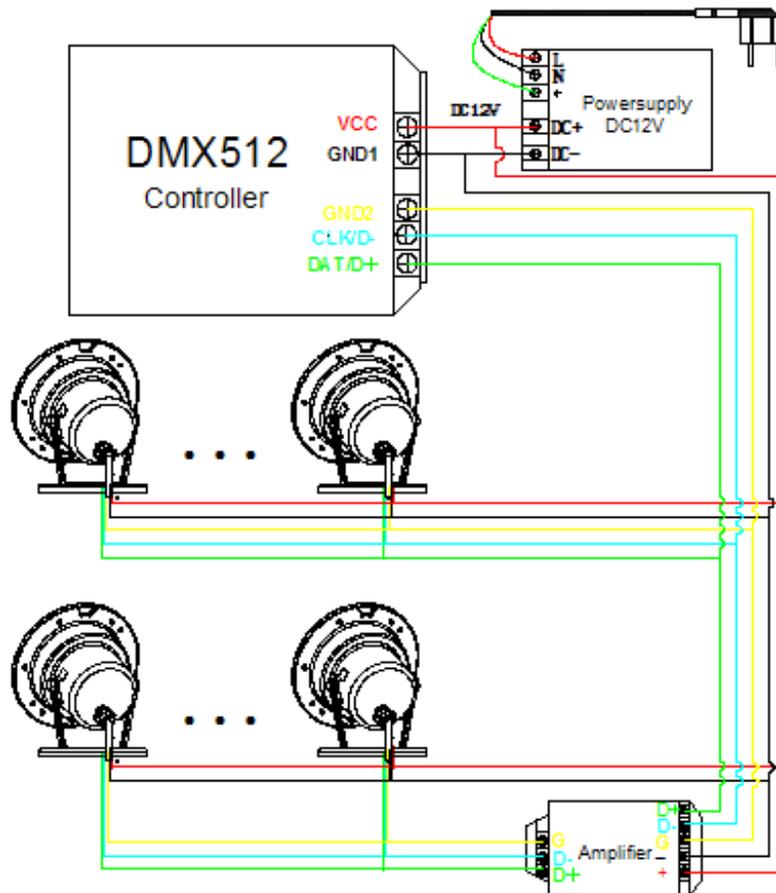
Yellow wire connect to DMX controller “GND2”

White wire connect to DMX controller “CLK/D-”

Blue wire connect to DMX controller “DAT/D+”

1 pc DMX512 Controller could connect many lamps, in case signal is not strong enough after connect too many lamps, use amplifier to enhance the signal.

Diagram:



4. Remote & Switch control



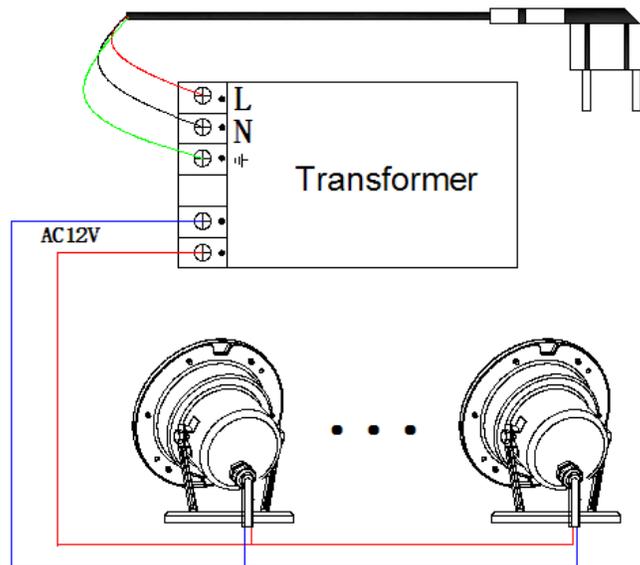
Instructions of The Remote Control Button			
Key	instructions	Key	instructions
A	Mode change (14 programs)	C	Slow down in "fading effect" & "Dynamic color chaging" mode -Reset the lamp by press 5S+ decrease brightness in solid color
B	Speed up in "fading effect" & "Dynamic color chaging" mode, increase brightness in solid color	D	-Switch on/off by press 1~2S

Note: Remote effective distance is 50 meters, to control lamps in distance of more than 50 meters, use switch control instead of remote control. Change mode by switch on/off.

14 RGB Programs;
 Red, Green, Blue
 R+G, G+B, R+B, R+G+B
 Dynamic change: R-G, G-B, R-B, R-G-B, Colorful
 R-G-B Fading, Colorful fading

Simply connect live and neutral wires onto any one of wires of the lamp

Diagram:



5. External control

LED External RGB controller



Sign	RF	Button	Description
		ON/OFF	ON/OFF key: Close or open controller (ON or OFF LED lamps)
		PAUSE	Pause: Press this button to rest at current color, press it again, it will continue to change. Other function: Press in 3 seconds, the buzzer can be on or off.
		MODE+ MODE-	Press the keys to select the change modes. Press MODE+ over 3 seconds to enter cycle mode automatically. Press MODE- over 3 seconds to enter DIY cycle mode automatically.
		SPEED+ SPEED-	Press the keys to quicken or slower speed. Press SPEED+ over 3 seconds , all speed change is restored to Default status. Press SPEED- over 3 seconds , the current change is restored to Default status.
		BRT+ BRT-	Press the keys to increase or decrease brightness. If keep pressing, the brightness will change continually.
		4 DIY keys	Press the keys for 3 seconds, the controller will save the present function mode automatically, which can save 4 modes and save repeatedly as well. Press "Mode-" in 3 seconds, the controller will play these 4 DIY modes automatically.

Note: Press "MODE-" key for 3 seconds ,merely play the dynamic effects. If the DIY modes save the static effects, that will be skipped.

DC+: Connect power supply (12V DC+)
+: Connect to lamp +
G: Connect to lamp G

DC-: Connect power supply (12V DC-)
B: Connect to lamp B
R: Connect to lamp R

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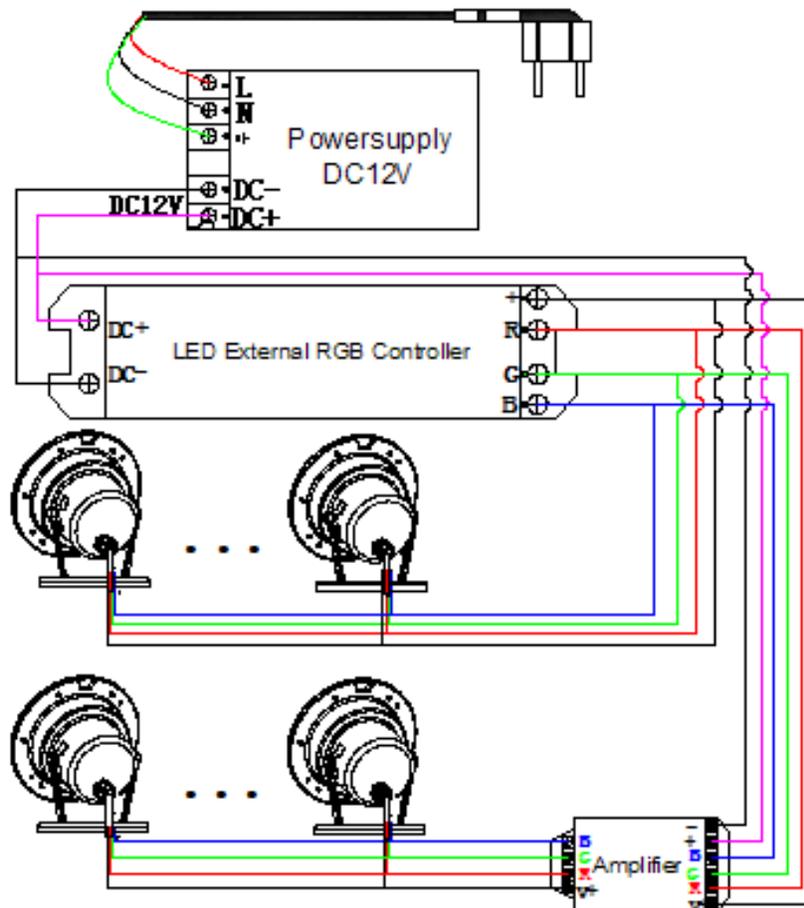


Step1: Connect Power supply (12V DC) to one end (DC+, DC-) of LED External RGB controller,

Step2: then another end (V+,B,G,R) port of LED External controller connect to 4 wires(V+,B,G,R) of lamp(with housing) as diagram below.

Remark: RGB Controller power is 200W, if total lamp wattage is above 180W, need to add Amplifier (150W) to enhance RGB signal.

Diagram:

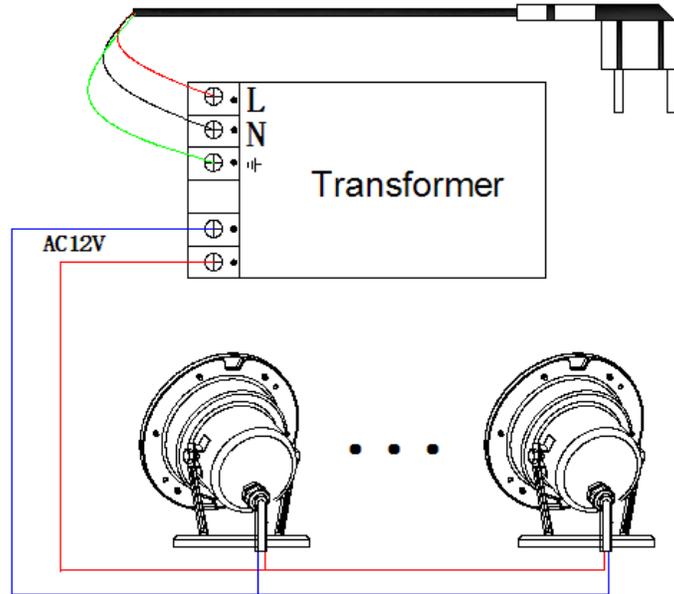


6. Automatic control

Simply connect live and neutral wires onto any one of wires of the lamp

Step1: connect lamps as below diagram

Diagram:

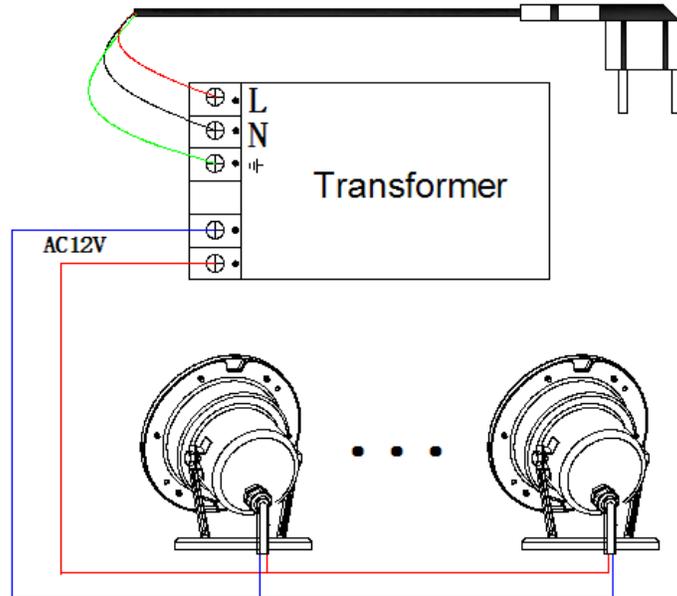


7. Single color-white, red, green, blue, yellow

Simply connect live and neutral wires onto any one of wires of the lamp

Step1: connect lamps as below diagram

Diagram:

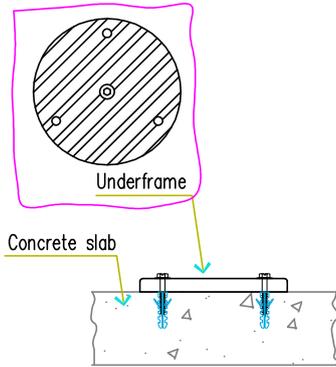


Without hole LED light Installation method

1. Install on the floor

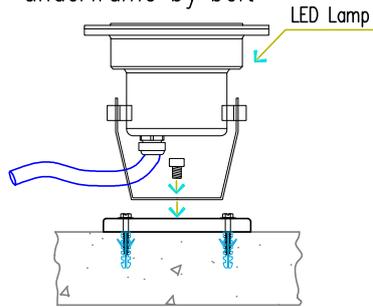
STEP 1:

Fix the underframe to the concrete by anchors and screws

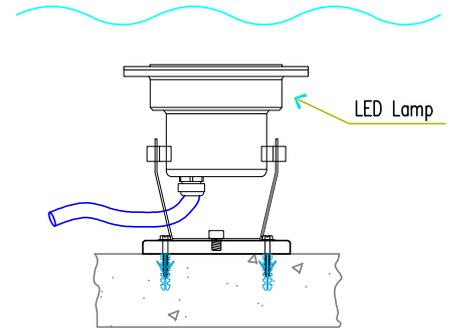


STEP 2:

Fix the lamp to underframe by bolt



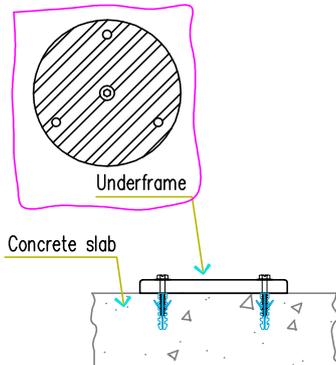
The lamp should be totally under water



2. Fix to the wall

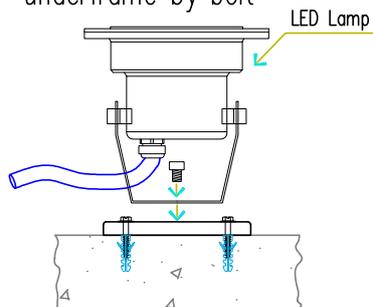
STEP 1:

Fix the underframe to the concrete by anchors and screws

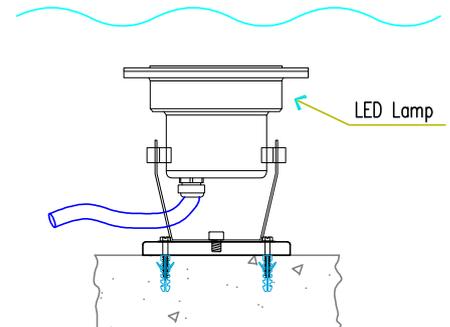


STEP 2:

Fix the lamp to underframe by bolt



The lamp should be totally under water

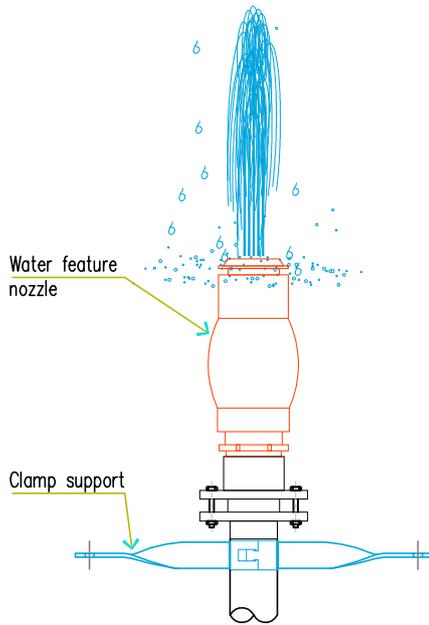


Without hole LED light Installation method

3. Install beside the nozzle

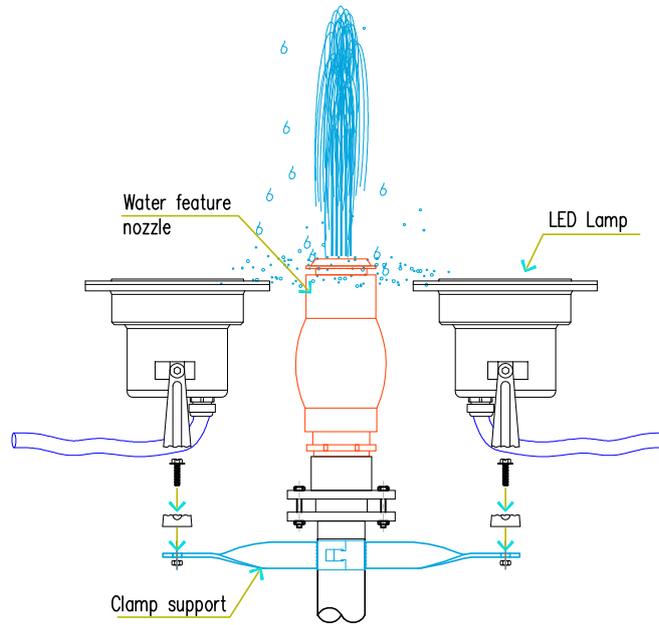
STEP 1:

Fix the clamp support to the pipe

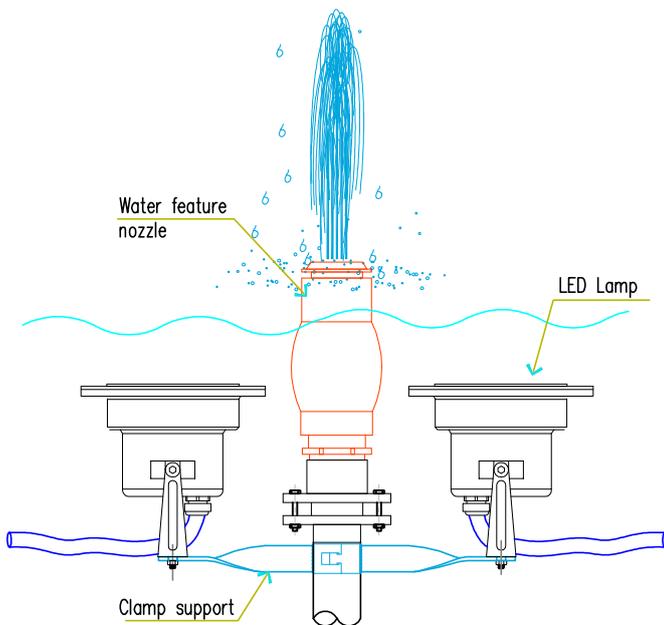


STEP 2:

Fix the lamp to clamp support by bolt & nut



The lamp should be totally under water

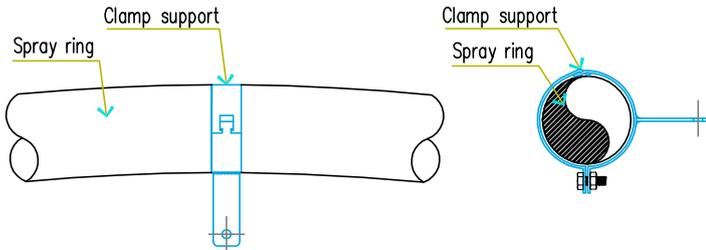


Without hole LED light Installation method

3. Install to the ring spray

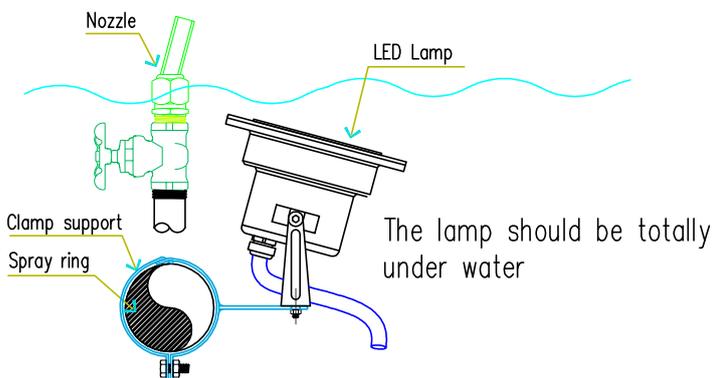
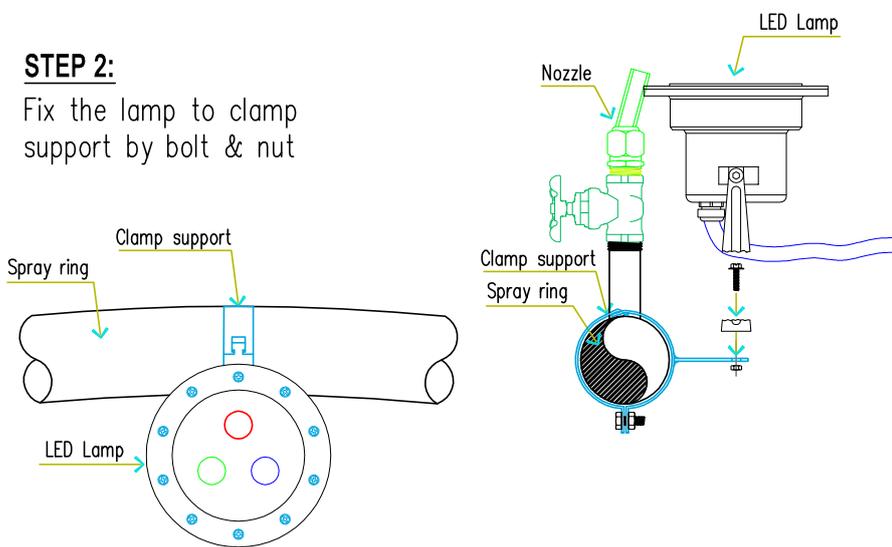
STEP 1:

Fix the clamp support to the pipe



STEP 2:

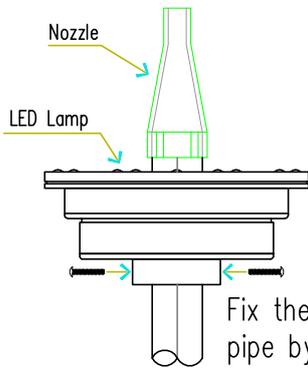
Fix the lamp to clamp support by bolt & nut



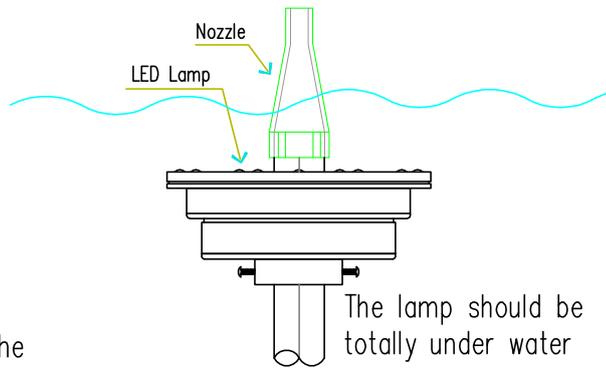
With hole LED light Installation method

Install with nozzle

STEP 1:



Fix the lamp to the pipe by tightening the bolts



The lamp should be totally under water

Note: This information is used for basic installation, please contact Viet Garden Company for more details. Hotline: 84 - (0) - 918 099 856; Email: info@densanvuon.com.vn